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ABSTRACT

The transcripts of the 115 Macomb Community College (MCC) students who graduated in 1978 with an Associate of General Studies degree were analyzed to determine data frequency counts, percentage distributions, and descriptive measurements which profiled the graduates in terms of demography, educational background, veteran status, attendance patterns, course selection patterns, combinations of fields in which students took courses, and course completion patterns. The data revealed that: (1) 30% had attended other post-secondary institutions before coming to MCC; (2) 43% of the graduates attended MCC for more than eight semesters; (3) 49% had "stepped out" for at least one semester; (4) 43% attended at least one summer session; and (5) courses in Communications, Humanities, Math/Science, Physical Education, and Social Science formed the bulk of difference between the requirements for the General Studies Degree and those for the Associate in Arts or Applied Sciences degrees. The statistical significance of the data was determined by the application of analysis of variance and multiple linear regression formulas. The study report presents the coefficient of correlation for each pair of 14 variables and the averages of these variables for demographic, course avoidance, and course interest subgroups. (Author/JP)

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ED178136

MACOMB COUNTY COMMUNITY COLLEGE

A Profile of Graduates with the Associate of General Studies Degree

Department of Research

JC 790 604

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PROFILE OF GRADUATES

WITH THE

ASSOCIATE OF GENERAL STUDIES DEGREE

MACOMB COUNTY COMMUNITY COLLEGE

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ABSTRACT

Information available in their transcripts was gathered for all graduates who earned an Associate of General Studies Degree in May 1978 at Macomb County Community College (MCCC). The information was then processed and analyzed using the Michigan Interactive Data Analysis System (MIDAS) at Wayne State University. This report gives a profile of this graduate. The analysis revealed that:

1. Almost a third of the General Studies graduates (30%) had earned credits from other postsecondary institutions.

2. While their average stay at MCCC was 8 semesters, 43% attended for more than 8 semesters.

3. Almost half of these students (43%) attended Macomb for at least one summer term.

4. Forty-nine percent of them stopped attending Macomb for at least one semester between the time of first enrollment and graduation.

5. Courses in Communications, Humanities, Math/Science, Physical Education and Social Science form the bulk of the difference between the requirements for the Associate of General Studies Degree and those for the Associate of Arts or Applied Science
As many as 38% of the General Studies graduates fulfilled this requirement for either the Associate of Arts degree or the Associate of Applied Science degree.

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Project No. 9-39

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PART ONE:

STATISTICAL DESCRIPTION

INTRODUCTION: PART ONE

In 1973 MCCC first awarded the Associate of General Studies Degree. The requirements for earning this degree allow for a great deal of latitude in course selection. The candidate for this degree must earn a minimum of 62 semester hours. Only 15 of these hours must be earned at MCCC. The student must also earn a minimum grade point average of 2.0 and must be attending MCCC during the semester that the repuirements are completed. The student is free to select courses from any of the seven fields at the college: Applied Technology, Business, Design Technology, General Education, Health, Mechanical Technology and Public Service.

Among the questions that might be raised concerning the student who ultimately graduates from Macomb with this degree are:

1. How many hours does this graduate earn before applying for the degree? Does it exceed the required number?
2. Is this student apt to be one who previously attended another postsecondary institution?
3. Do these students tend to avoid any of the courses required for the Associate of Arts or the Associate of Applied Science degrees?
4. Do these students attempt to earn more credit hours than they actually earn? If so, how great is the difference?
5. Do these students typically avoid specializing in a particular field of study?

This report answers these questions and provides additional information regarding these students which was discovered during the course of the analysis.

METHODOLOGY: PART ONE

The sample chosen for analysis was comprised of all students who earned the Associate of General Studies Degree in May 1978.

Transcripts were obtained for each of the 115 graduates in this category. The information contained in the transcripts was first recorded, then key-punched. Key-punch directions resulted in data adaptable to the MIDAS statistical package at Wayne State University. The analysis of the data was then carried out on the MIDAS system.

First, frequency counts, percentage distributions and descriptive measures were determined. The results of this portion of the analysis are presented here.

These findings allow conclusions to be drawn regarding the sample. In order to determine whether these conclusions can be extended to some larger population, tests of significance were applied to the data (analysis of variance (ANOVA) and multiple linear regression). For the sake of brevity and simplicity, the results of this second portion of the analysis will be found in Part Two of this report.

TABLE 1

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Demographic Information

	Number	Number Divided by 115
Sex		
Male	90	79%
Female	24	21%
Age at the Time of First Enrollment		
Range = 18 - 53 Average = 24		
18 - 20	49	43%
21 - 25	34	30%
26 - 30	16	14%
31 - 35	10	9%
36 - 40	1	1%
41 - 45	1	1%
46 - 50	1	1%
Over 50	3	3%
County of Residence		
Macomb	85	75%
Wayne	24	21%
Oakland	2	2%
Other Michigan County	3	2%

Table 2

PROFILE OF GRADUATES WITH THE ASSOCIATES OF GENERAL STUDIES DEGREE

Year of First Enrollment at MCCC

N=115

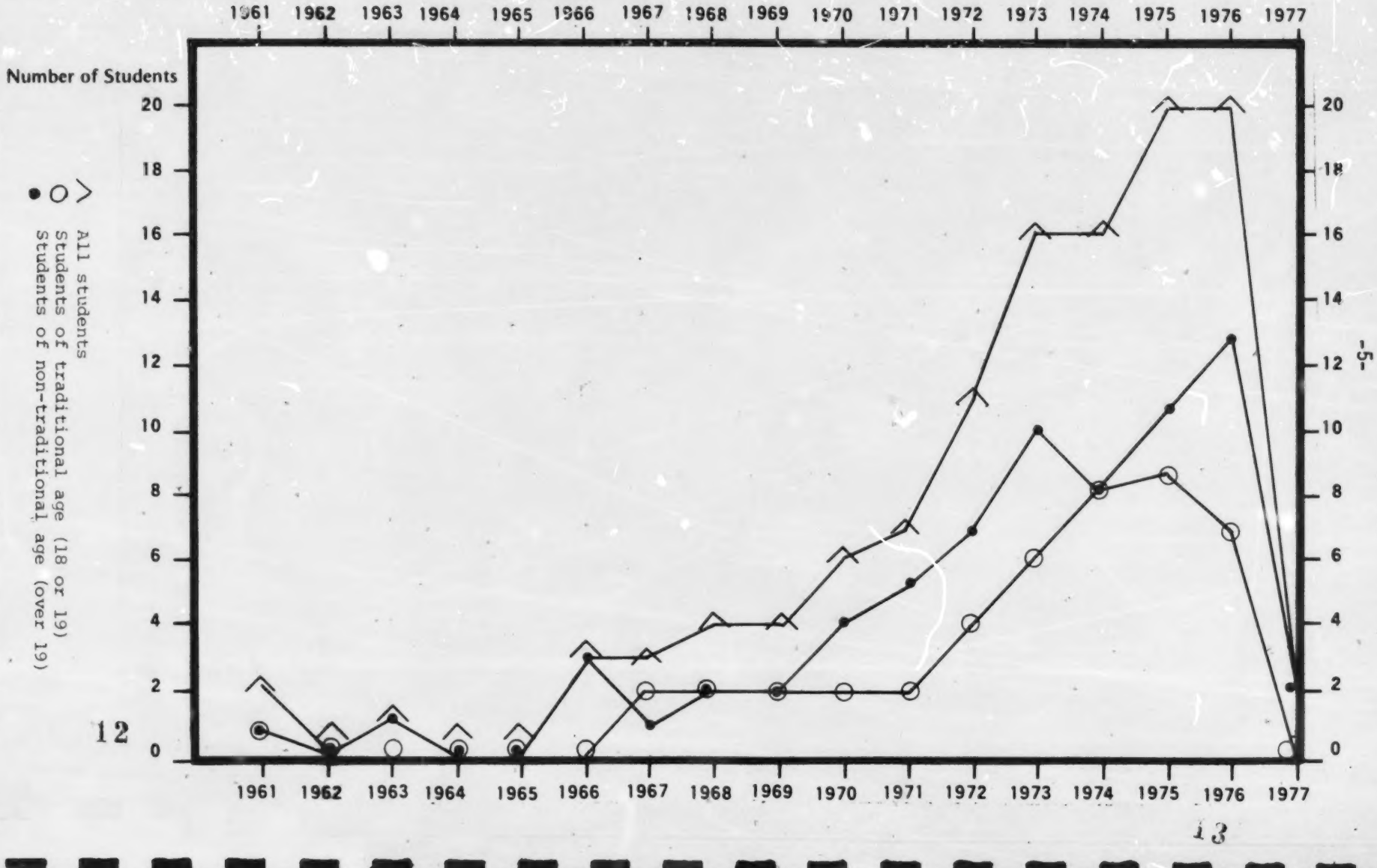

TABLE 3

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Background Information

	Number	Number Divided by 115
High School Type		
Macomb County	54	47%
Out-of-County	24	21%
Parochial	10	9%
Out-of-state	15	13%
Unknown	12	10%
High School Diploma Earned		
Regular	96	84%
GED	2	2%
Unknown	16	14%
Veteran Status		
Veteran	25	22%
Non-Veterans	90	78%
Students Who Earned Credit Hours at Other Post-Secondary Institutions (Total)	35	30%
Less than 20 credit hours	17	15%
20 or more credit hours	18	16%

TABLE 4

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Attendance Patterns

	Number	Number Divided by 115
Number of Semesters Students Attended Macomb		
Range = 3 - 18		
Average = 8		
1 - 8 semesters	66	57%
9 - 18 semesters	49	43%
Number of Summers Students Attended Macomb		
0	65	57%
1	29	25%
2	16	14%
3	4	3%
4	1	1%
1 - 4 (Total)	50	43%
Times Students Stopped Attending Macomb for at Least One Semester		
0	59	51%
1	34	30%
2	19	17%
3	2	2%
4	0	0%
5	1	1%
1 - 5 (Total)	56	49%
Campus Students Attended		
South Campus	85	74%
Center Campus	30	26%

TABLE 5

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Course Selection Patterns: Other Degree Requirements

	Number	Number Divided by 115
Students who successfully completed two courses in each of the areas below	20	17%
Except for:		
Communications	4	3%
Humanities	11	10%
Math/Science	8	7%
Physical Education	11	10%
Social Science	2	2%
Except one:	36	31%
Students who successfully completed one course in each of the areas below	24	21%
Except for:		
Communications	1	1%
Humanities	1	1%
Math/Science	8	7%
Physical Education	15	13%
Social Science	0	0%
Except one:	25	22%
Students who avoided courses in		
Communications	9	8%
Humanities	24	21%
Math/Science	25	22%
Physical Education	38	33%
Social Science	11	10%

TABLE 6

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Course Selection Patterns: Fields of Strong Interest[1]

	Number	Number Divided by 115
Students Who Were Strongly Interested in Two Fields (Total)	41	36%
Business/General Education	24	21%
Design Technology/General Education	8	7%
General Education/Mechanical Technology	4	3%
Applied Technology/Mechanical Technology	2	2%
Applied Technology/Design Technology	1	1%
Applied Technology/General Education	1	1%
Business/Mechanical Technology	1	1%
Students Who Were Strongly Interested in Only One Field (Total)	67	58%
General Education	39	34%
Business	11	10%
Mechanical Technology	11	10%
Applied Technology	4	3%
Design Technology	2	2%
Students Who Did Not Show a Strong Interest[2] in Any Field (Total)	7	6%
Grand Total	115	100%

[1]At least 20 credit hours were successfully Completed.

[2]These students may have taken as many as 19 hours in any field.

TABLE 7

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Combinations of Fields in Which Students Took Courses

Number of Fields Sampled	Fields							Number of Students Having the Particular Combination of Fields Indicated
	Applied Tech	Business	Design Tech	Ceneral Ed.	Health	Mechanical Tech	Public Service	
Five	*	*	*	*		*		1
Five		*	*	*		*	*	1
Five	*	*		*	*		*	1
Four		*	*	*		*		3
Four	*	*		*		*		2
Four	*	*		*			*	2
Four		*	*	*			*	1
Three		*		*		*		11
Three		*	*	*				7
Three	*			*		*		5
Three	*	*		*				3
Three			*	*		*		2
Three				*	*	*		1
Three	*		*	*				1
Two		*						44
Two				*		*		12
Two			*	*				3
Two		*				*		1
Two	*			*				1
Two				*			*	1
One				*				8
One		*				*		1
One						*		1
One	*							1
Total	17	79	19	110	2	40	6	115
Percent of 115	15%	69%	17%	96%	2%	35%	5%	100%

Note: The * indicates that at least one course was taken in the field indicated.
Example: Eleven students took courses in three fields: Business, General Education and Mechanical Technology. (See 8th row down.)

TABLE 8

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Course Completion Patterns

	Number of Students	Percent of 115
Number of Semester Hours Earned		
Range = 60-117 Average = 70		
0-62 hours	23	20%
over 62 hours	92	80%
Number of Semester Hours Earned at Macomb		
Range = 19-90 Average = 62		
60-62 hours	43	37%
More than 62 hours	72	63%
Students Who Earned at Least One Non-successful Grade at Macomb*	82	71%
Students Who Earned from One to Three Non-successful Grades at Macomb	49	43%
Students Who Earned More Than Three Non-successful Grades at Macomb	33	29%

*Grades: E, N, I, W or WP

TABLE 9

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE

Descriptive Measures

Variable	Number of Students	Minimum	Maximum	Mean	Standard Deviation
Total Semester Hours Earned	115	60	117	70	11
Semester Hours Earned at MCCC	115	19	90	62	12
Grade Point Average	115	1.95	4.00	2.96	.50987
Non-successful Grades Earned	82	1	22	4	4
Semester Hours Transferred to MCCC from Other Postsecondary Institutions	35	2	78	28	22
Age at the Time of First Enrollment at MCCC	115	18	53	24	7
Age in 1978	115	20	57	29	8
Number of Semesters Students Attended MCCC	115	3	18	8	3
Semester Hours Earned in Applied Technology	17	2	60	21	20
Semester Hours Earned in Business	79	3	51	20	12
Semester Hours Earned in Design Technology	19	2	46	22	14
Semester Hours Earned in General Education	110	1	82	33	19
Semester Hours Earned in Health	2	6	12	9	4
Semester Hours Earned in Mechanical Technology	40	3	58	21	17
Semester Hours Earned in Public Service	6	6	25	11	7

RESULTS: PART ONE

Table 1 shows that the average age at the time of first enrollment was 24 and Table 9 shows that at the time of graduation it was 29. In a recent study at the college, the average age of all students enrolled in Spring 1973 was 27. Since this figure is about midway between the starting and ending ages for the students in the sample, the General Studies degree graduate seems to be typical with respect to age.

Almost a third of the students (30%) had attended other postsecondary institutions before coming to Macomb and more that half of these had earned at least 20 semester hours at these institutions.

The length of time this graduate remained at the college did not vary much between students of traditional starting age (18 or 19) and students who were older at the time of first enrollment at the college; most stayed for 8 semesters. It seems remarkable, however, that almost half of the graduates had attended Macomb for more than 8 semesters and that at least one graduate had attended Macomb off and on for 17 years.

The pattern of "off and on" attendence, sometimes referred to as "stopping out" seems to be a characteristic of this group. Almost half of the graduates (49%) had stopped attending Macomb for at least one semester, at least one time.

Summer attendance appeared to be popular; 43% of these students attended Macomb for at least one summer.

One of the questions raised in the introduction was whether these students tended to avoid the required courses for the other associate degrees offered at the college. Required courses in Communications, Humanities,

Math/Science, Physical Education and Social Science form the bulk of the difference between the requirements for the Associate of General Studies Degree and those for the Associate of Arts or Applied Science degrees.

A student who earns an Associate of Arts Degree must successfully complete two courses in each of Communications, Humanities, Math/Science and Social Science, and two credit hours in Physical Education.

Twenty of the students in the group (17%) completed all five of these requirements; 36 (31%) completed all but one of them, and almost half of these students (49%) came within two courses of completing all five.

A student who earns an Associate of Applied Science Degree must successfully complete one course in each of Communications, Humanities, Math/Science and Social Science and two credit hours in Physical Education.

Twenty-four students (21%) met these five requirements. Further, 22% met all but one of these requirements, and 43% of the group was within one course of meeting all five. Certain of these courses seemed disproportionately unpopular. Physical education courses were shunned by 33% of the graduates; 22% avoided Math/Science courses, and 21% avoided courses in Humanities.

Other questions raised in the introduction concerned the patterns of course selection exhibited by these students. A vast majority of these students (94%) showed a strong interest in at least one field of study.

For purposes of this study, "Strong interest" indicates successful completion of at least 20 semester hours in a field.

It seems surprising that so many of these students (90%) selected courses from more than one field. Three of these students sampled as many as five fields.

This profile of the student who earns an Associate of General Studies Degree answers the questions posed in the introduction and has revealed many additional characteristics of this student. However, as with most studies of an exploratory nature, it has identified areas for further study and exploration. In this instance, the need for tests of significance becomes immediately apparent. These tests can answer questions such as the following: How do age, sex, or other characteristics affect the student's attendance, course selection or course completion patterns? The result of applying these tests of significance follows in part two.

PART TWO:

STATISTICAL SIGNIFICANCE

INTRODUCTION AND METHODOLOGY: PART TWO

This part of the report contains the results of the second portion of the analysis described in the Methodology section of Part One (p. 3). The second portion of the analysis consists of the application of formulas for analysis of variance (ANOVA) and multiple linear regression.

Variables considered as dependent were:

1. The number of semesters attended
2. The number of summers attended
3. The number of stop-outs (definition p. 13)
4. The total number of credit hours earned
5. The number of non-successful grades earned (definition p. 11)
6. The number of credit hours earned at Macomb
7. The grade-point-average (GPA)
8. The number of credit hours transferred to MCCC from other postsecondary institutions
9. Age at the time of first enrollment at MCCC
10. The number of credit hours earned in each of the following fields (definition p. 9)
    a. Applied Technology
    b. Business
    c. Design Technology
    d. General Education
    e. Mechanical Technology

Two other fields are offered at the College (Health and Public Service). However, the number of students who took courses in these fields was considered too small for analysis.

Table 1 shows the coefficient of correlation for each pair of these 14 variables. Table 2 shows the averages of these 14 variables for subgroups identified by demographic information. Table 3 gives these same averages for subgroups identified by their avoidance of particular courses. Table 4 gives these averages for those subgroups identified by their interest in particular fields. In all four tables significances are indicated by an asterisk (*).

Special care should be taken when examining the tables in this part of the report. The presence or absence of an asterisk in a cell is not an indication of the relative importance of its mumerical data. For example, Table 1 shows that the higher the GPA for a student, the fewer non-successful grades he earned. While this finding has statistical significance, it has relatively little usefulness. However, as shown in Table 3, there was no significant difference between the average ages of those students who avoided courses in Physical Education and those who did not. Because one might expect older students to avoid physical education courses, this finding is both interesting and useful.

TABLE 1

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Coefficients of Correlation

	A.	B.	C.	D.	E.	F.	G.	H.	I.	J.	K.	L.	M.	N.
A. Semesters Attended														
B. Summers Attended	.286													
C. Stop-outs	.357*	.047												
D. Total Credit Hours Earned	.093	-.016	.067											
E. Grade Point Average	-.246	.018	-.160	.128										
F. Non-successful Grades Earned	.471*	.375*	.305*	.013	-.396*									
G. Credit Hours Earned at Macomb	.484*	.294	-.054	-.027	-.086	.230								
H. Credit Hours Transferred to Macomb from Other Postsecondary Institutions	-.308*	-.233	.084	.652*	.146	-.166	-.776							
I. Age at Time of Enrollment	-.009	-.000	-.126	.075	.117	-.208	-.141	.155						
J. Credit Hours Earned in Applied Technology	.228	-.122	.093	-.044	-.237	.035	.087	-.094	-.042					
K. Credit Hours Earned in Business	-.127	.039	-.144	-.188	-.017	.086	-.019	-.060	.222	-.237				
L. Credit Hours Earned in Design Technology	.050	.142	-.009	.159	-.139	.105	.265	-.101	-.210	-.036	-.205			
M. Credit Hours Earned in General Education	.086	.221	-.188	-.133	.016	.098	.439*	-.417*	-.193	-.273	-.201	-.031		
N. Credit Hours Earned in Mechanical Technology	.225	-.035	.256	.263	.142	-.021	.084	.102	.007	.010	-.330*	-.116	-.362*	

*significant (α = .001)

**The headings for each column are the same as those for corresponding rows, e.g. Column E has the heading: "Grade Point Average."

TABLE 2a

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Averages for Groups Identified by Demographic Information

	Sex		County of Residence				Type of High School Diploma		
	Male	Female	Macomb	Wayne	Oakland	Other Michigan	Regular	GED	Unknown
Semesters Attended	8.79	7.50	8.80	7.79	7.50	6.67	8.59	9.50	7.81
Summers Attended	0.60	0.95	0.71	0.50	1.50	0.33	0.70	0.00	0.63
Stop-outs	0.79	0.50	0.82	0.42	0.50	0.33	0.75	0.50	0.63
Total Credit Hours Earned	71.13	67.63	70.47	70.63	71.00	64.67	70.60	73.50	68.75
Grade Point Average	2.91	3.12	3.01	2.79	2.94	2.65	2.98	3.14	2.83
Non-successful Grades Earned	3.38	1.63*	3.12	2.54	1.50	4.33	2.76	1.00	4.75
Credit Hours Earned at Macomb	61.17	64.83	62.68	58.04	71.00	64.67	62.50	63.00	58.44
Credit Hours Transferred to Macomb from Other Postsecondary Institutions	9.97	2.79	7.79	12.58	0.00	0.00	8.10	10.50	10.31
Age at Time of Enrollment	23.97	22.92	24.00	22.54	18.00	32.33	23.13	42.50	25.00*
Credit Hours Earned in Applied Technology	3.58	1.67	2.46	4.71	0.00	13.33	3.18	0.00	3.31
Credit Hours Earned in Business	14.67	10.17	12.98	15.00	3.00	26.33	13.97	16.50	12.63
Credit Hours Earned in Design Technology	2.60	7.29*	3.36	3.63	18.00	0.00	3.47	0.00	4.75
Credit Hours Earned in General Education	28.98	40.25*	32.35	30.71	40.50	6.00	32.15	20.50	29.06
Credit Hours Earned in Mechanical Technology	9.08	1.54*	8.96	2.00	9.55	8.33	7.39	9.00	7.94

*Difference in means is significant (α = .05).

TABLE 2b

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Averages for Groups Identified by Demographic Information

	Age		Veteran Status		
	Traditional	Not Traditional	Veteran	Non-Veteran	Total Sample (N=115)
Semesters Attended	8.58	8.43	9.36	8.24	8.49
Summers Attended	0.82	0.57	0.56	0.70	0.67
Stop-outs	0.80	0.67	0.96	0.66	0.72
Total Credit Hours Earned	69.44	70.91	70.96	70.17	70.34
Grade Point Average	2.90	2.99	3.00	2.94	2.96
Non-successful Grades Earned	3.91	2.39*	2.76	3.04	2.98
Credit Hours Earned at Macomb	67.64	58.30*	60.76	62.29	61.96
Credit Hours Transferred to Macomb from Other Postsecondary Institutions	1.80	12.61*	10.20	7.88	8.38
Age at Time of Enrollment	NA	NA	27.04	22.84*	23.76
Credit Hours Earned in Applied Technology	2.71	3.43	10.72	1.04*	3.15
Credit Hours Earned in Business	12.07	14.99	13.16	14.03	13.84
Credit Hours Earned in Design Technology	6.42	1.71*	1.76	4.06	3.56
Credit Hours Earned in General Education	39.89	25.93*	22.96*	33.73	31.39
Credit Hours Earned in Mechanical Technology	5.67	8.56	9.60	6.82	7.43

*Difference in means is significant (α = .05).

TABLE 3

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Averages for Groups Identified by Avoidance of Particular Courses

	Avoided Humanities Courses		Avoided Math/Science Courses		Avoided Physical Education Courses		Total Sample (N=115)
	Yes	No	Yes	No	Yes	No	
Semesters Attended	7.54	8.74	8.92	8.37	8.42	8.54	8.49
Summers Attended	0.25	0.78*	0.52	0.71	0.58	0.74	0.67
Stop-outs	0.92	0.67	1.00	0.64	0.72	0.72	0.72
Total Credit Hours Earned	68.00	70.96	70.00	70.43	68.84	71.49	70.34
Grade Point Average	3.08	2.92	2.92	2.96	2.99	2.93	2.96
Non-successful Grades Earned	1.83	3.29	3.72	2.78	2.36	3.46	2.98
Credit Hours Earned at Macomb	60.13	62.44	61.40	63.22	60.96	62.72	61.96
Credit Hours Transferred to Macomb from Other Postsecondary Institutions	7.88	8.52	8.60	8.32	7.88	8.77	8.38
Age at Time of Enrollment	23.29	23.88	28.36	22.48*	23.18	24.20	23.76
Credit Hours Earned in Applied Technology	8.33	1.78*	9.48	1.39*	4.66	1.98	3.15
Credit Hours Earned in Business	13.04	14.06	19.32	12.32*	11.08	15.97	13.84
Credit Hours Earned in Design Technology	1.25	4.16	1.44	4.14	2.70	4.22	3.56
Credit Hours Earned in General Education	23.38	33.51*	12.88	36.53*	28.26	33.80	31.39
Credit Hours Earned in Mechanical Technology	9.38	6.91	3.76	5.67	11.42	4.35*	7.43

*Difference in means is significant (α = .05).

TABLE 4

PROFILE OF GRADUATES WITH THE ASSOCIATE OF GENERAL STUDIES DEGREE
Averages for Groups Identified by Interest in Particular Fields

	Showed a Strong Interest in Applied Technology		Showed a Strong Interest in Business		Showed a Strong Interest in Design Technology		Showed a Strong Interest in General Educatior		Showed a Strong Interest in Mechanical Tech.		Total Sample (N=115)
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
Semesters Attended	11.38	8.27*	8.11	8.66	8.64	8.47	8.70	8.08	9.72	8.26	8.49
Summers Attended	0.38	0.69	0.72	0.65	0.91	0.64	0.74	0.54	0.44	0.71	0.67
Stop-outs	1.00	0.70	0.61	0.77	0.73	0.72	0.66	0.85	1.11	0.65*	0.72
Total Credit Hours Earned	68.88	70.45	68.22	70.34	75.55	69.79	68.75	73.44*	77.83	68.95	70.34
Grade Point Average	2.56	2.98*	2.98	2.94	2.79	2.97	2.96	2.95	3.13	2.92	2.96
Non-successful Grades Earned	3.50	2.94	3.42	2.78	3.45	2.93	3.16	2.64	2.56	3.06	2.98
Credit Hours Earned at Macomb	66.63	61.61	62.92	61.92	72.36	60.86*	64.99	56.05*	61.67	62.01	61.96
Credit Hours Transferred to Macomb from Other Postsecondary Institutions	2.25	8.84	5.31	9.78	3.18	8.93	3.76	17.39*	16.17	6.94*	8.38
Age at Time of Enrollment	22.36	23.86	26.17	22.66*	19.36	24.22*	22.95	25.33	24.28	23.66	23.76
Credit Hours Earned in Applied Technology	NA	NA	0.28	4.46	3.82	3.08	0.68	7.95*	4.72	2.86	3.15
Credit Hours Earned in Business	1.75	14.75*	NA	NA	3.18	14.97*	13.12	15.26	4.00	15.67*	13.84
Credit Hours Earned in Design Technology	2.50	3.64	1.06	4.70	NA	NA	3.72	3.23	0.44	4.13	3.56
Credit Hours Earned in General Education	13.13	32.76*	26.97	33.41	31.46	31.39	NA	NA	12.17	34.96*	31.39
Credit Hours Earned in Mechanical Technology	8.38	7.36	1.92	9.94*	1.64	8.04	3.66	14.77*	NA	NA	7.43

* Difference in means is significant ($\alpha = .05$).

RESULTS: PART TWO

Semesters Attended

The more semesters a student attended, the more often the student "stopped out," the more non-successful grades the student earned and the more credit hours the student accumulated at Macomb. At the same time this student transferred fewer credit hours to Macomb from other post-secondary institutions. Students who showed a strong interest in Applied Technology courses attended significantly longer than those who did not show this interest.

Summers Attended

Students who avoided courses in Humanities attended Macomb during significantly fewer summers than those who selected Humanities courses. Also, the more summers a students attended the more non-successful grades he earned.

Stop-Outs

Those students who showed a strong interest in Mechanical Technology stopped out significantly more often than did those students without this interest. Also, the more times a student stopped out, the more non-successful grades he earned.

Total Credit Hours Earned

Students who showed a strong interest in General Education courses accumulated a total of significantly fewer credit hours than did students without this interest. However, this is tempered by two facts: 1) these same students transferred significantly fewer hours from other postsecondary

institutions, and 2) the more hours a student transferred from other postsecondary institutions, the greater the total number of hours the student earned.

Grade Point Average

Students who showed a strong interest in Applied Technology courses graduated with a significantly lower GPA than did students without this interest. As is to be expected, the higher the student's GPA, the fewer non-successful grades the student earned.

Non-Successful Grades Earned

Males earned significantly more non-successful grades than did the females in the group. Also students of traditional age (18-19) at the time of first enrollment earned significantly more non-successful grades.

Credit Hours Earned at Macomb

Three subgroups of these students took significantly more credit hours at Macomb: students of traditional age at the time of first enrollment, students who showed a strong interest in Design Technology courses, and students who showed interest in General Education courses. Predictably, the more credit hours the students earned at Macomb, the fewer he transferred to Macomb from other postsecondary intstitutions.

Credit Hours Tranferred to Macomb from Other Postsecondary Institutions

The group that showed the greatest tendency to transfer to Macomb from other postsecondary institutions were those students who showed a strong interest in Mechanical Technology courses. Other groups of students who transferred significantly large numbers of credit hours to Macomb were those of non-traditional age at the time of enrollment, and

those who did not show a strong interest in general education courses. This tendency is also shown in the high negative correlation between the number of credit hours transferred to Macomb and the number of credit hours earned at Macomb in General Education.

Age at the Time of First Enrollment at MCCC

Students who had earned a General Education Development Certificate (GED) instead of a high school diploma, who were veterans, who avoided classes in math or science, or who showed a strong interest in business courses were significantly older than their counterparts. On the other hand, students who showed a strong interest in design technology courses tended to be younger at the time of first enrollment.

Credit Hours Earned in Applied Technology

Students who earned significantly more hours in Applied Technology than their counterparts were veterans, avoided course in Humanities, avoided courses in Math or Science, did not show a strong interest in the field of General Education.

Credit Hours Earned in Business

Students who avoided math or science courses earned significantly more hours in Business. On the other hand, students who showed a strong interest in Applied Technology or in Design Technology, or in Mechanical Technology, earned significantly fewer hours in Business.

Credit Hours Earned in Design Technology

Students who earned significantly more hours in Design Technology than their counterparts were females or were of traditional college age at the time of first enrollment at MCCC.

Credit Hours Earned in General Education

Students who earned significantly more hours in General Education than their counterparts were females or were of traditional college age at the time of first enrollment at MCCC. Students who earned significantly fewer hours in General Education were veterans, avoided courses in Math or Science, avoided courses in Humanities, showed a strong interest in Applied Technology or showed a strong interest in Mechanical Technology.

Credit Hours Earned in Mechanical Technology

Students who took significantly more hours in Mechanical Technology than their counterparts were males, avoided courses in Math or Science, or avoided courses in Physical Education.

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